

Ensemble 2012 System Management for IHS (FY2013)

The Management Portal has been revised since Ensemble 2010 and some fundamental components have been enhanced. The reviews allow students to become familiar with the new Management Portal while working with concepts they have seen before (for example, namespaces and databases).

The Mirroring module provides an introduction and some hands-on experience with a high-availability technology recently added to the Caché and Ensemble products.

Installation

- Overview of Installation
- Performing an Upgrade (Ensemble 2010 to Ensemble 2012)
- Starting and Stopping Ensemble
- Emergency Access

Architecture – Review of the following topics

- Databases
- Namespaces
- Routines, Globals, Classes, Packages
- Global and Routine Mappings

System Configuration

- Global and Routine Buffers
- Memory Requirements
- Configuration File

Application Configuration

- Global and Routine Mappings
- Default Databases
- Mappings for Ensemble

Managing Databases

- Database Properties
- Expanding a Database
- Freespace, Database Integrity
- Introduction to Database Structure

Managing Processes

- System and User Processes
- Utilities to Monitor Processes
- Process Private Globals
- Process and Locking

Journaling

- Write Image Journal
- Journaling
- Journal File and Recovery

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Regular Operations

- Backup
 - External Backup
 - Cache Backup
 - Restoring from a Backup
- Using the Task Manager
 - Scheduling and Monitoring

Monitoring – Overview of

- Dashboard
- ^GLOSTAT
- ^PERFMON
- Caché Monitoring Tools

Security

- Review essential security components
 - Authentication
 - Services
 - Resources
 - Roles
- Database Encryption

Auditing

- Using the Cache Audit Database

Log File Review

- Console Log
- Application Error Log
- SYSLOG

Basic Troubleshooting

- What information to collect
- Diagnostic Report
- What to do if Ensemble Hangs
- Detecting Process Problems

Troubleshooting CSP

- How does CSP Work
- Troubleshooting CSP (Management Portal) Access Problems

Networking

- ECP Networking
 - Purpose
 - How to Configure
- Shadowing
 - Purpose
 - How to Configure

Mirroring

- Introduction to Mirroring
- What Mirroring Is and Is Not
- Configuring a Failover Mirror